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APPLICATION NO.	FII	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/882,018	06/18/2001		Claire-Sabine Randriamasy	Q64966	Q64966 8810	
23373	7590	11/02/2005		EXAM	INER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.				DANIEL JR	DANIEL JR, WILLIE J	
SUITE 800				ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037				2686	•	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/882,018	RANDRIAMASY, CLAIRE-SABINE				
Office Action Summary	Examiner	Art Unit				
	Willie J. Daniel, Jr.	2686				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on 16 Ag This action is FINAL . 2b) ☐ This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examine applicant may not request that any objection to the objected to be corrected.	r election requirement. r. epted or b) objected to by the lighter of the ligh	e 37 CFR 1.85(a).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

1. This action is in response to applicant's amendment filed on 16 April 2004. Claims 1-5 are now pending in the present application. Also, the Examiner has taken into consideration the applicant's amendment filed on 08 October 2004.

Response to Amendment

2. In response to applicant's amendment, the finality of the rejection of the last Office action mailed 08 July 2004 is withdrawn, which is hereby replaced with this Final Office action.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 5 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 5 recites the limitation "...k..." in line 2 of the claim.

Regarding Claim 5, the claim includes a variable "k" without providing an explanation as to what the variable "k" represents. The applicant is advised to review the cited subject matter of the specification (see pg. 7, lines 4-23). The Examiner respectfully requests the applicant to provide page(s), line(s), and figure(s) of the instant application that

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supports the limitation of the claim(s) and/or any supportive comment(s) to help clarify and resolve this issue(s).

4. This list of examples is not intended to be exhaustive. The Examiner respectfully requests the applicant to review all claims and clarify the issues as listed above as well as any other issue(s) that are not listed.

Drawings

5. The objection (see action mailed on 08 July 2004) to Fig. 3 is withdrawn, as the proposed Fig. 3 correction is approved (see amendment filed on 08 October 2004).

Claim Objections

6. Claim 5 is/are objected to because of the following informalities:

Claim 5 recites the limitation "...the set..." in line(s) 2 of the claim. There is insufficient antecedent basis for this limitation in the claim and the claim is being considered as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Appropriate correction is required.

7. The objection (see action mailed on 08 July 2004) to claim 5 is withdrawn, as the proposed claim 5 correction is approved (see amendment filed on 08 October 2004).

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Vasudevan et al. (hereinafter Vasudevan) (US 6,539,221).

Regarding Claim 1, Vasudevan discloses a method of constructing a representation (Figs. 1, 5, and 17) of the geographical distribution of traffic for a cellular radio network (see abstract; col. 1, line 64 - col. 2, line 5; col. 2, lines 14-42), the method comprising the steps of:

dividing each cell of said cellular network into a set of sectors which reads on the claimed "areas" using information on handovers obtained from said cellular network (see col. 1, line 64 - col. 2, line 5; col. 5, lines 1-12; Figs. 5, 6, 7, 8, and 20), where the cell is divided into areas for handover of traffic;

determining a traffic threshold which reads on the claimed "value" for each of said areas (see col. 8, lines 44-64; col. 11, lines 4-11; col. 13, lines 9-19; Figs. 3, 22b, 22f, and 22h), where a threshold is calculated for each cell area; and

determining a representation of the geographical distribution of the traffic from said traffic values (see col. 3, lines 47-64; col. 8, line 44 - col. 9, line 17; Figs. 5, 8, 11, 13, and 17), where the cell is split according to traffic threshold.

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Regarding Claim 2, Vasudevan discloses a method according to claim 1, wherein the traffic value of an area depends on a handover probability associated with that area (see col. 8, lines 44-64; col. 11, lines 4-11; col. 13, lines 10-19; Fig. 22b).

Regarding Claim 3, Vasudevan discloses a method according to claim 2, wherein said handover probabilities are computed conjointly with said traffic values by a constraint optimization method (see col. 1, lines 41-49; col. 5, line 39 - col. 8 line 43; col. 13, lines 10-19; Figs. 18 and 22b), where the network optimization is performed within the constraints of the algorithms.

Regarding Claim 4, Vasudevan discloses a method according to claim 1, wherein the step of dividing each cell is made up of the following substeps:

acquiring incoming handover boundaries from best server maps provided by a management system (see col. 3, lines 6-64; col. 4, lines 32 - col. 5, line 35; Figs. 16, 17, and 23a-c), where the system determines the handover boundaries which are adjusted according to traffic demands, and

computing outgoing handover boundaries from said incoming handover boundaries, said outgoing handover boundaries forming the boundaries of said areas (see col. 3, lines 6-64; col. 4, lines 32 - col. 5, line 35; Figs. 16, 17, and 23a-c), where determining of the outgoing boundaries are generated from the incoming boundary would be inherent for handover.

Regarding Claim 5, Vasudevan discloses of wherein the following equation is satisfied $\sum_{k \in J(i)} \lambda_k = t_i$ such that J(i) is the set of indices of the areas belonging to cell i

and t_i is the traffic value for cell i (see col. 5, lines 1-12; col. 8, lines 13-19; col. 9, line 33 - col. 10, line 14; col. 13, lines 9-19; Fig. 22b-h), where the cell/sectors have a power limit and

traffic threshold that the densification program use for the algorithm and Erlang and Poisson formulas to optimize the network in which the equation would be inherent.

Response to Arguments

9. Applicant's arguments filed 16 April 2004 have been fully considered but they are not persuasive.

Examiner respectfully disagrees with applicant's arguments as the applied reference(s) provide more than adequate support and to further clarify (see the above claims and comments in this section).

10. Regarding applicants argument on page 6, 3rd paragraph, lines 5-6, "Vasudevan is deficient with respect to the division of cells within the network into areas to obtain a traffic representation", the Examiner respectfully disagrees with the applicant. Vasudevan clearly discloses of cells of a wireless network that are divided into sectors with coverage area bins (see col. 4, line 54 - col. 5, line 12; col. 8, lines 45-63; col. 10, lines 6-9; Figs. 4-5, 7, 8a-b, 14-15, 24-31), where the cells are split into sectors with bins for determining traffic density for handover and optimizing of the network.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until

after the end of the THREE-MONTH shortened statutory period, then the shortened statutory

period will expire on the date the advisory action is mailed, and any extension fee pursuant to

37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Willie J. Daniel, Jr. whose telephone number is (571) 272-

7907. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-

8300.

Information regarding the status of an application may be obtained from the Patent

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(toll-free).

Marsha D. Banks-Harold SUPERVISORY PATENT EXAMINER

31 October 2005 TECHNOLOGY CENTER 2600

WJD,JR